

SPE RESPONSE FOR CERTIFICATE OF CORRECTION

Paper No.:

DATE : 8/12/07

TO SPE OF : ART UNIT 2611

SUBJECT : Request for Certificate of Correction on Patent No.:

A response is requested with respect to the accompanying request for a certificate of correction.

Please complete this form and return with file, within 7 days to:

**Certificates of Correction Branch - ST (South Tower) 9A22**

Palm location 7590 - Tel. No. (703) 305-8309

With respect to the change(s) requested, correcting Office and/or Applicant's errors, should the patent read as shown in the certificate of correction? No new matter should be introduced, nor should the scope or meaning of the claims be changed.

Thank You For Your Assistance

Certificates of Correction Branch

The request for issuing the above-identified correction(s) is hereby:

Note your decision on the appropriated box.

☒ Approved

All changes apply.

☐ Approved in Part

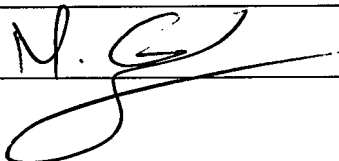
Specify below which changes **do not** apply.

☐ Denied

State the reasons for denial below.

Comments:

SPE:



2611  
Art Unit

**UNITED STATES PATENT AND TRADEMARK OFFICE  
CERTIFICATE OF CORRECTION**

PATENT NO : 7,142,609 B2  
DATED : November 28, 2006  
INVENTOR(S) : Terreault, et al.

Page 1 of 2

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

Column 14

Line 36, delete the following that begins with "Referring now to FIG. 9. according to one aspect...", and ends with "(15%) can be extracted." on column 15, line 3, and insert the following:

The proposed method is to use spectrum analyzer functionality to sample the signal amplitude with a resolution bandwidth of the same order of magnitude as the signal (i.e. 1 or 3 MHz) for the 6 MHz signal, but a small video bandwidth (1 kHz); to trigger the sampling sequences to the power line and apply averaging preferably over between twenty (20) and two hundred (200) averages. By zooming onto the small amplitude modulation, a peak-to-peak modulation from one tenth (0.1%) of a percent to fifteen percent (15%) can be extracted.

Referring now to FIG. 9, according to one aspect of the present invention, there is provided a method 900 for detecting and quantifying impairments of a received communication signal of a quadrature amplitude modulation data communication system represented by a plurality of ideal values, said method comprises the steps of:

a) storing 902 a statistically significant number of a plurality of received points of said signal for each of said ideal values corresponding to a plurality of groups of said plurality of ideal values, each of said received points being defined by an in-phase and a quadrature components in a coordinate system in which a first axis is an in-phase axis and a second axis is a quadrature axis, said components having corresponding ideal components from their respective of said ideal values, each of said groups corresponding to a respective of said impairments and being specific to the same;

b) analyzing 904 said components of said received points of respective of said groups in relation with their respective of said ideal components of said ideal values to quantify said impairments of said signal and provide calculated values of the same; and

c) displaying 906 said calculated values of said impairments.

Column 15

- Claim 1, line 15, delete "(OAM)" and insert therefor -- (QAM)--
- Claim 1, line 34, delete "qadrature" and insert therefor -- quadrature--
- Claim 1, line 36, delete "quadrutire" and insert therefor -- quadrature--
- Claim 1, line 40, delete "imparments" and insert therefor -- impairments--
- Claim 1, line 42, delete "compression ratio. I/O" and insert therefor -- compression ratio, I/Q--
- Claim 1, line 42, delete "I/O phase" and insert therefor -- I/Q phase--
- Claim 3, line 61, delete "cower" and insert therefor -- corner--

Column 16

- Claim 4, line 11, delete "ia-phase" and insert therefor -- in-phase--
- Claim 6, line 59, delete "sub-avenge" and insert therefor -- sub-average--

Column 17

- Claim 6, line 13, delete "Conning" and insert therefor -- forming--
- Claim 7, line 25, delete "bath" and insert therefor -- both--

Column 18

- Claim 10, line 1, delete "band" and insert therefor -- baud--
- Claim 12, line 26, delete "(hum) said" and insert therefor -- (hum), said--
- Claim 12, line 36, delete "rare" and insert therefor -- rate--

Column 20

- Claim 12, line 3 and 4, delete "peak-re-peak" and insert therefor -- peak-to-peak--

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PATENT NO: 7,142,609 B2

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

*If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.*